



CDF Operations Report

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FNAL

All Experiments' Meeting
Feb 24, 2005

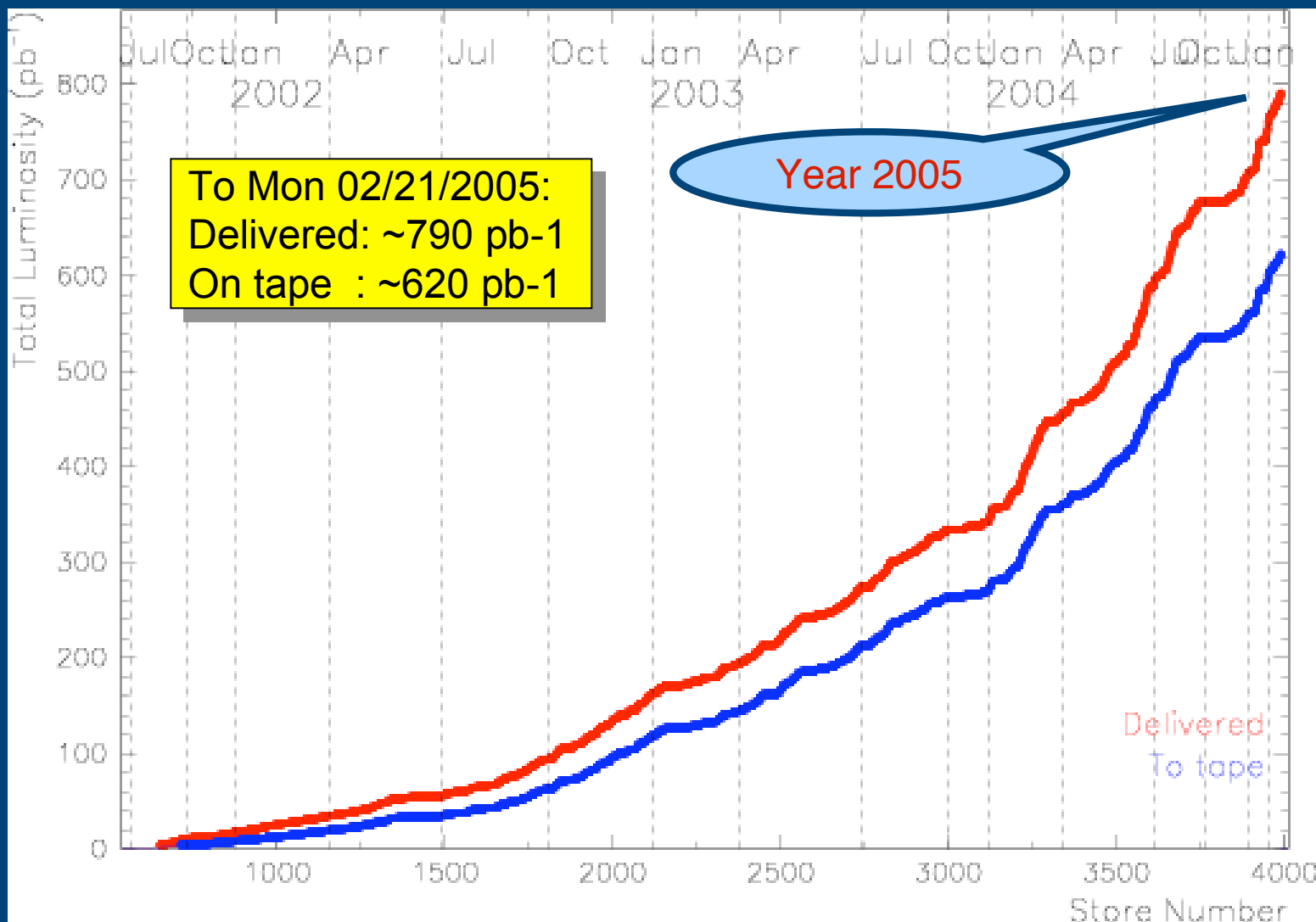
Store Summary

Store	Start Date	Time [hours]	Initial Lum [10 ³⁰]	Int. Lum Delivered [nb ⁻¹]	Live Lum [nb ⁻¹]	Eff.	Comments
3987	2/17	22.4	70.4	2708.3	1980.3	73%	
3989	2/18	24.4	77.4	3055.3	2598.8	85%	Changed DAQ system
3991	2/19	1.1	76.3	279.8	148.8	53%	TeV quenched
3994	2/20	0.8	66.7	187.2	161.7	86%	TeV quenched
3997	2/21	15.8	61.0	1799.7	1128.6	63%	Large TeV losses
4000	2/22	28.2	82.3	3342.5	2778.7	83%	VRB problems
4002	2/23		118.0			75%	Record lum; initial VRB problems due to COT crate—power cycled
Total	2/17-2/24	92.7		11372.8	8796.9	77%	

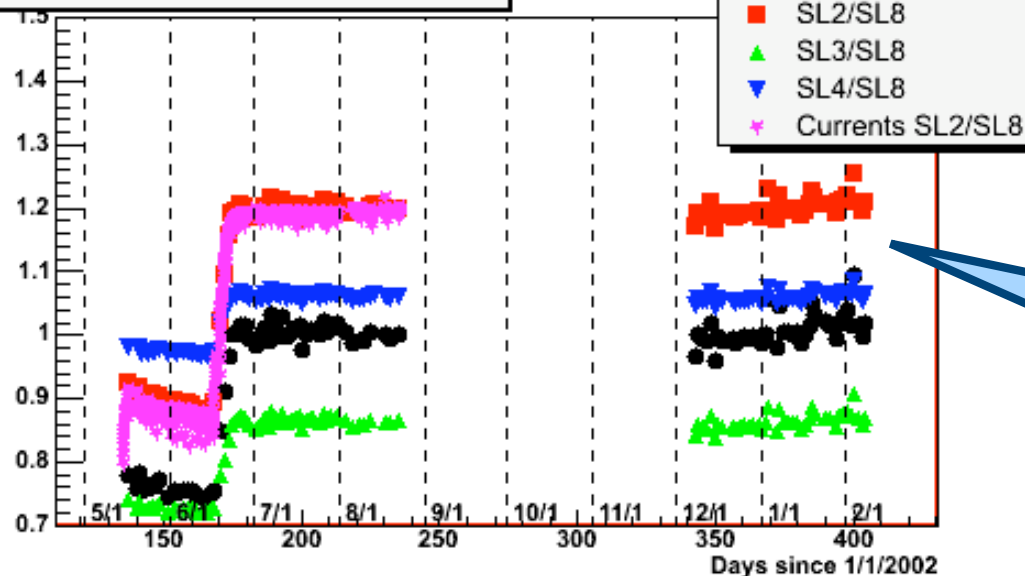
CDF Operations

- CDF took data with ~80% efficiency last week.
- CDF is devoting time for L2 Pulsar (Run IIb level 2 trigger upgrade) tests, along with silicon calibration at the end of stores.
- CDF continued to work on hardware/software DAQ issues that reduced data taking efficiency.
 - Tried a new version of TDC readout DSP code that reduces readout deadtime but data taking efficiency went down due to DAQ errors.
 - We reverted back to our previous TDC readout DSP code before Friday store: data taking efficiency improved to ~85%
 - Still trying to use VRB with newer firmware to reduce data error problems from event builder crate
- Accelerator has done both flying wire and sync light studies this week. Large losses seen Monday not understood?
- CDF – this week: Take good data.

Run II Integrated Luminosity



Width Relative To SL8 vs Date - SL1:4

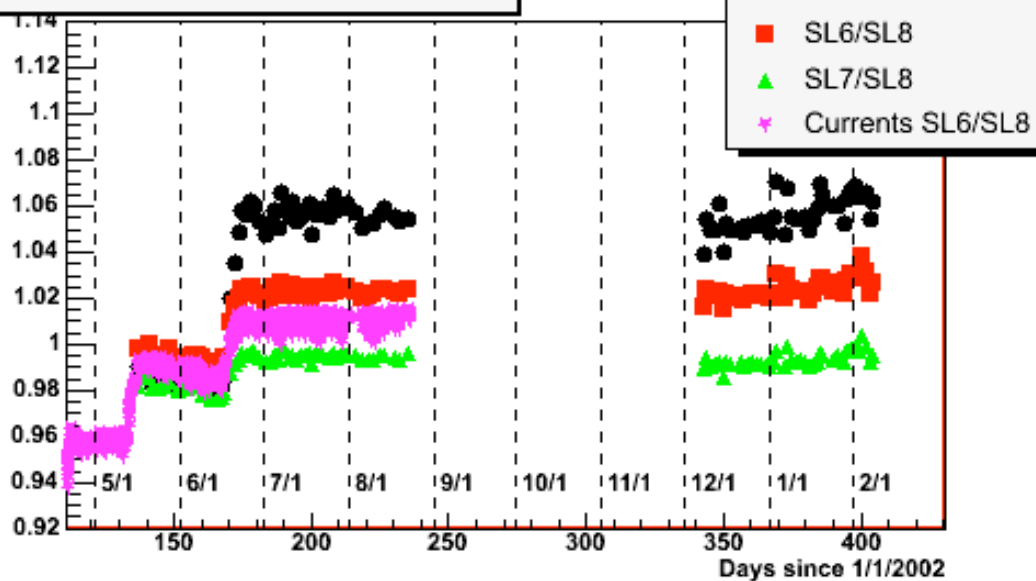


First evidence of
COT gain drop
observed Fall 2003

Good News

COT aging is
gone now.

Width Relative To SL8 vs Date - SL5:8



Pulse widths for the COT
normalized to super layer 8
for the past few months.

They are flat with NO sign of
aging; widths have returned
to levels of early in the run II

Plots courtesy of Kevin Burkett

Offline Status

o Data processing and calibration status

• Raw data processing:

- Last processed run (as of 2/24/2005, 10:00AM): run 194266
- (02/21/2005) We had a problem which caused trouble to the farms. Processing of the data was restarted yesterday.

• Calibrations status:

- 10A (used by BeamExe): up to 194318 (2/22/2005)
 - Special thanks to Jason Nielsen. The transition from sgi2 to lnx3 is completed.
- 11A (used by ProductionExe): up to 194315 (2/22/2005).
 - Need 10A to build 11A.

o Software development

- Last week was not a very good one. An unusual problem which come up on Friday was fixed on Tuesday: online DB was not replicated correctly due to a glitch in the system. The jobs were just crashing on the first event (no calib tables available).
- Everything back to normal: PhysMon up-to-date.
- The latest release, 6.1.0pre5, is now being validated. We are hoping that the next release is going to be the "final" 6.1 release used for data processing.
- Final Gen 6 Validation Meeting today, at 3:00pm. Previous meeting showed no major problem in the software reconstruction.
- Towards one-pass Production: Last week Susana went a run cycle and processed smoothly 20 pb⁻¹ of data with CalibExe.
- Transition from DFC to SAM progressing well.